

## WEST Search History

DATE: Thursday, June 05, 2003

### Set Name Query

side by side

### Hit Count Set Name

result set

*DB=DWPI; PLUR=YES; OP=ADJ*

|    |  |        |    |
|----|--|--------|----|
| L9 | l6 and l7 and l8   | 12     | L9 |
| L8 | clean\$ or wipe or wiper or wiping   | 323560 | L8 |
| L7 | fiber or strand or fibre or filament\$ or strand or thread or string or yarn | 682648 | L7 |
| L6 | lobe or lobal or lobed   | 9854   | L6 |

*DB=USPT; PLUR=YES; OP=ADJ*

|    |  |        |    |
|----|--|--------|----|
| L5 | l2 and L4                              | 124    | L5 |
| L4 | ((428/369  428/370  428/371 )!.CCLS. ) | 1030   | L4 |
| L3 | l1 and L2                              | 18     | L3 |
| L2 | clean\$                                | 414718 | L2 |
| L1 | ((442/337 )!.CCLS. )                   | 50     | L1 |

END OF SEARCH HISTORY

# WEST Search History

DATE: Thursday, June 05, 2003

## Set Name Query

side by side

## Hit Count Set Name

result set

*DB=USPT; PLUR=YES; OP=ADJ*

|     |                                    |        |     |
|-----|------------------------------------|--------|-----|
| L14 | 5707735.pn.                        | 1      | L14 |
| L13 | L12 and l9                         | 0      | L13 |
| L12 | 6162382.pn.                        | 1      | L12 |
| L11 | 6162382.pn.L10                     | 0      | L11 |
| L10 | l8 and l9                          | 0      | L10 |
| L9  | clean\$ or wipe or wiping or wiper | 449942 | L9  |
| L8  | 5932346.pn.                        | 1      | L8  |
| L7  | 5922462.pn.                        | 1      | L7  |

*DB=DWPI; PLUR=YES; OP=ADJ*

|    |  |        |    |
|----|--|--------|----|
| L6 | l1 and l2 and l5   | 88     | L6 |
| L5 | l3 or l4   | 10030  | L5 |
| L4 | multilobal or multilobed   | 135    | L4 |
| L3 | lobal or lobed or bilobal or trilobal or lobe  | 9981   | L3 |
| L2 | fiber or fibre or filament\$ or yarn\$ or strand or string or thread   | 682824 | L2 |
| L1 | multicomponent or multiconstituent or multi adj (component or constituent) or bicomponent or biconstituent or bi adj (component or constituent) or conjugate or composite or sheath adj core or side by side | 183060 | L1 |

END OF SEARCH HISTORY

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L9: Entry 9 of 12

File: DWPI

Apr 9, 1987

DERWENT-ACC-NO: 1987-102515  
DERWENT-WEEK: 200054  
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TITLE: Multilayer fleece material - comprises layers of thermoplastic fibre welded together in discrete regions by thermal treatment

INVENTOR: BRAUN, R V; BUTT, J R ; PHELAN, R J ; WOON, L

PATENT-ASSIGNEE:

ASSIGNEE

KIMBERLY CLARK CORP

KIMBERLY-CLARK WORLDWIDE INC

CODE

KIMB

KIMB

PRIORITY-DATA: 1985US-0785369 (October 7, 1985), 1985US-0785368 (October 7, 1985)

PATENT-FAMILY:

| PUB-NO        | PUB-DATE         | LANGUAGE | PAGES | MAIN-IPC   |
|---------------|------------------|----------|-------|------------|
| DE 3634139 A  | April 9, 1987    |          | 014   |            |
| DE 3634139 C2 | October 26, 2000 |          | 000   | D04H001/54 |
| AU 8663499 A  | April 9, 1987    |          | 000   |            |
| FR 2588285 A  | April 10, 1987   |          | 000   |            |
| SE 8604228 A  | April 8, 1987    |          | 000   |            |
| US 4668566 A  | May 26, 1987     |          | 007   |            |
| JP 62097955 A | May 7, 1987      |          | 000   |            |
| US 4778460 A  | October 18, 1988 |          | 014   |            |
| CA 1271024 A  | July 3, 1990     |          | 000   |            |
| CA 1281537 C  | March 19, 1991   |          | 000   |            |
| KR 9310351 B1 | October 16, 1993 |          | 000   | D04H003/00 |
| JP 2541524 B2 | October 9, 1996  |          | 013   | D04H003/00 |

APPLICATION-DATA:

| PUB-NO       | APPL-DATE       | APPL-NO        | DESCRIPTOR     |
|--------------|-----------------|----------------|----------------|
| DE 3634139A  | October 7, 1986 | 1986DE-3634139 |                |
| DE 3634139C2 | October 7, 1986 | 1986DE-3634139 |                |
| FR 2588285A  | October 6, 1986 | 1986FR-0013891 |                |
| US 4668566A  | October 7, 1985 | 1985US-0785368 |                |
| JP 62097955A | October 7, 1986 | 1986JP-0238982 |                |
| US 4778460A  | October 7, 1985 | 1985US-0785369 |                |
| KR 9310351B1 | October 6, 1986 | 1986KR-0008340 |                |
| JP 2541524B2 | October 7, 1986 | 1986JP-0238982 |                |
| JP 2541524B2 |                 | JP 62097955    | Previous Publ. |

INT-CL (IPC): A41B 13/02; A61F 13/15; A61F 13/16; B32B 5/08; D04H 1/54; D04H 1/56; D04H 3/00; D04H 3/14; D04H 13/00; D06N 7/00

ABSTRACTED-PUB-NO: DE 3634139A  
BASIC-ABSTRACT:

Material (I) comprises a first non-woven layer of fibres (II) having single filaments of bilobate section, and a second layer, welded thereto, of fibres (III) having a three-lobed section. Pref. fibres are of polyethylene (II), polypropylene (III), or EP-copolymer (II or III), and (III) is more wettable than (II). The fibres are laid down continuously and randomly in the two layers, which are stabilised by a discrete number of binding regions between fibres.

(I) is mfd. by extrusion through a multi-lobed hole, and continuous deposition of fibre to form a tissue which is stabilised as above; the second layer is formed and welded to the first. The inter-fibre bonding is produced by passing the tissue between heated rollers having a raised pattern corresp. to the regions to be welded.

(I), stabilised as above by thermal bonding in regions between regions of unbonded fibres, forms the lining for nappies or menstruation prods., in which the compressed (welded) regions form 5-30% of the surface.

ADVANTAGE - Disposable absorbent articles (esp. as mentioned above) have improved softness and tensile strength.

ABSTRACTED-PUB-NO:

US 4668566A

EQUIVALENT-ABSTRACTS:

A multilayer nonwoven fabric comprises a first nonwoven web comprising a number of identically prepared continuous and randomly deposited polyethylene monofilaments. A second nonwoven web which is adjacent and bonded to the first web. The second web comprises a number of identically prepared continuous and randomly oriented polypropylene monofilaments.

USE/ADVANTAGE - disposable products e.g. diapers, feminine care products, surgical gowns, industrial wipes. Softness, tensile strength and improved moisture transfer capability. (7pp)○

US 4778460A

Nonwoven fabric, comprises one web having bilobal monofilaments of thermoplastic material, bonded to a second web having monofilaments of another thermoplastic material, specifically polypropylene in the first web and polyethylene in the second web, or polypropylene or polyethylene in both webs.

Pref. one web contains ethylene-propylene-copolymer monofilaments, and the second web monofilaments have Y-shaped cross-section for enhanced wettability of diaper or sanitary napkin liner or wrap fabric.

ADVANTAGE - Improved softness and strength. (14pp)

CHOSEN-DRAWING: Dwg.0/11

TITLE-TERMS: MULTILAYER FLEECE MATERIAL COMPRISE LAYER THERMOPLASTIC FIBRE WELD DISCRETE REGION THERMAL TREAT

DERWENT-CLASS: A96 D22 F07 P21 P32 P73

CPI-CODES: A04-G01E; A11-C01A; A11-C05A; A12-S05G; A12-V03A; D09-C02; D09-C04; D09-C06; F01-C03; F01-D05; F01-E02; F02-C01; F02-C02; F02-C02B; F03-D03; F04-C01; F04-E04;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 3151 0239 0241 3153 0248 0250 2454 3228 2475 2476 2486 3240 2528 2530 2569 3250 2622 2628 2635 2662 3258 3287 2820

Multipunch Codes: 014 034 04- 041 046 047 050 27& 30& 32& 395 415 437 454 481 483 485 50& 52& 53& 532 533 535 551 56& 560 561 566 567 573 58& 597 603 645 651 664 665 688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-042560

Non-CPI Secondary Accession Numbers: N1987-077105

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L9: Entry 2 of 12

File: DWPI

May 24, 2000

DERWENT-ACC-NO: 2000-367709  
DERWENT-WEEK: 200032  
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TITLE: A photocopier cleaning web has multi-lobal fibers of polyimide, resistant to breakdown up to 260 degree Celsius

INVENTOR: DUGDALE, N G; LEBOLD, A ; PALAZZO, J ; PARRY, S

## PATENT-ASSIGNEE:

|              |       |
|--------------|-------|
| ASSIGNEE     | CODE  |
| BMP EURO LTD | BMPEN |

PRIORITY-DATA: 1998GB-0025343 (November 19, 1998)

## PATENT-FAMILY:

|               |              |          |       |            |
|---------------|--------------|----------|-------|------------|
| PUB-NO        | PUB-DATE     | LANGUAGE | PAGES | MAIN-IPC   |
| EP 1003084 A2 | May 24, 2000 | E        | 007   | G03G015/20 |

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

## APPLICATION-DATA:

|              |                   |                |            |
|--------------|-------------------|----------------|------------|
| PUB-NO       | APPL-DATE         | APPL-NO        | DESCRIPTOR |
| EP 1003084A2 | November 18, 1999 | 1999EP-0309198 |            |

INT-CL (IPC): G03 G 15/20

ABSTRACTED-PUB-NO: EP 1003084A  
BASIC-ABSTRACT:

NOVELTY - A cleaning web (40) has multi-lobal cross section fibers with cross sections having a ratio of peripheral dimension to area greater than that of a circular cross section fiber of equal cross sectional area and which are resistant to thermal breakdown at temperatures up to 260 degrees Celsius.

USE - In cleaning web manufacture.

ADVANTAGE - Is useful for cleaning photocopying equipment.

DESCRIPTION OF DRAWING(S) - The drawing shows a view of the web.

Web 40

CHOSEN-DRAWING: Dwg.4/4

TITLE-TERMS: PHOTOCOPY CLEAN WEB MULTI LOBE POLYIMIDE RESISTANCE BREAKDOWN UP DEGREE CELSIUS

DERWENT-CLASS: A84 F04 P84 S06

CPI-CODES: A05-J01B; A12-D05; A12-S05E; A12-S05G; F02-C01; F04-D; F04-E;

EPI-CODES: S06-A10;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P1081\*R F72 D01 ; P0077 ; H0293 ; S9999 S1070\*R ; S9999 S1183 S1161 S1070 Polymer Index [1.2] 018 ; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F\* 7A ; H0000 ; S9999 S1070\*R ; S9999 S1183 S1161 S1070 ; P0511 Polymer Index [1.3] 018 ; P1025 P1014 P0964 P1149 H0260 F23 F34 D01 ; S9999 S1070\*R ; S9999 S1183 S1161 S1070 Polymer Index [1.4] 018 ; P0839\*R F41 D01 D63 ; P0884 P1978 P0839 H0293 F41 D01 D11 D10 D19 D18 D31 D50 D63 D90 E21 E00 ; S9999 S1070\*R ; S9999 S1183 S1161 S1070 ; S9999 S1285\*R Polymer Index [1.5] 018 ; ND01 ; Q9999 Q7034\*R ; Q9999 Q7749 Q7681 ; Q9999 Q8253 Q8173 ; B9999 B5243\*R B4740 ; B9999 B5254 B5243 B4740 ; B9999 B4682 B4568 ; B9999 B3178 ; K9461 ; B9999 B4864 B4853 B4740 ; K9676\*R ; N9999 N7192 N7023 ; N9999 N6020 N6008 ; Q9999 Q7818\*R ; N9999 N6166

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-111189

Non-CPI Secondary Accession Numbers: N2000-275215